



J. Sovata
RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/164,764

DATE: 08/02/2002
TIME: 13:55:19

Input Set : N:\Crf3\RULE60\09164764.raw
Output Set: N:\CRF3\08022002\I164764.raw

SEQUENCE LISTING

- 3 (1) GENERAL INFORMATION:
6 (i) APPLICANT: SIDRANSKY, DAVID
9 (ii) TITLE OF INVENTION: DETECTION OF HYPERMUTABLE NUCLEIC ACID
10 SEQUENCE IN TISSUE
12 (iii) NUMBER OF SEQUENCES: 40
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Spensley Horn Jubas & Lubitz
16 (B) STREET: 1880 Century Park East, Suite 500
17 (C) CITY: Los Angeles
18 (D) STATE: CA
19 (E) COUNTRY: USA
20 (F) ZIP: 90067
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Diskette
24 (B) COMPUTER: IBM Compatible
25 (C) OPERATING SYSTEM: DOS
26 (D) SOFTWARE: FastSEQ Version 1.1
28 (vi) CURRENT APPLICATION DATA:
C--> 29 (A) APPLICATION NUMBER: US/09/164,764
C--> 30 (B) FILING DATE: 01-Oct-1998
31 (C) CLASSIFICATION:
33 (vii) PRIOR APPLICATION DATA:
35 (A) APPLICATION NUMBER: US/08/854,727
36 (B) FILING DATE: 12-MAY-1997
38 (A) APPLICATION NUMBER: 08/299,477
39 (B) FILING DATE: 31-AUG-1994
41 (A) APPLICATION NUMBER:
42 (B) FILING DATE: August 31, 1994
44 (viii) ATTORNEY/AGENT INFORMATION:
45 (A) NAME: Tumarkin, Ph.D., Lisa A.
46 (B) REGISTRATION NUMBER: P-38,347
47 (C) REFERENCE/DOCKET NUMBER: PD-3485
49 (ix) TELECOMMUNICATION INFORMATION:
50 (A) TELEPHONE: 619-455-5100
51 (B) TELEFAX: 619-455-5110
52 (C) TELEX:
55 (2) INFORMATION FOR SEQ ID NO: 1:
57 (i) SEQUENCE CHARACTERISTICS:
58 (A) LENGTH: 18 base pairs
59 (B) TYPE: nucleic acid
60 (C) STRANDEDNESS: single
61 (D) TOPOLOGY: linear

ENTERED

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Input Set : N:\Crf3\RULE60\09164764.raw
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63 (ii) MOLECULE TYPE: cDNA
64 (iii) HYPOTHETICAL: NO
65 (iv) ANTI-SENSE: NO
W--> 66 (v) FRAGMENT TYPE:
67 (vi) ORIGINAL SOURCE:
69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
71 CTTGTGTCCC GGCGTCTG 18

73 (2) INFORMATION FOR SEQ ID NO: 2:
75 (i) SEQUENCE CHARACTERISTICS:
76 (A) LENGTH: 19 base pairs
77 (B) TYPE: nucleic acid
78 (C) STRANDEDNESS: single
79 (D) TOPOLOGY: linear
81 (ii) MOLECULE TYPE: cDNA
82 (iii) HYPOTHETICAL: NO
83 (iv) ANTI-SENSE: NO
W--> 84 (v) FRAGMENT TYPE:
85 (vi) ORIGINAL SOURCE:
87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
89 CAGCCCAGCA GGACCAGTA 19

91 (2) INFORMATION FOR SEQ ID NO: 3:
93 (i) SEQUENCE CHARACTERISTICS:
94 (A) LENGTH: 21 base pairs
95 (B) TYPE: nucleic acid
96 (C) STRANDEDNESS: single
97 (D) TOPOLOGY: linear
99 (ii) MOLECULE TYPE: cDNA
100 (iii) HYPOTHETICAL: NO
101 (iv) ANTI-SENSE: NO
W--> 102 (v) FRAGMENT TYPE:
103 (vi) ORIGINAL SOURCE:
105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
107 TGGTAACAGT GGAATACTGA C 21

109 (2) INFORMATION FOR SEQ ID NO: 4:
111 (i) SEQUENCE CHARACTERISTICS:
112 (A) LENGTH: 21 base pairs
113 (B) TYPE: nucleic acid
114 (C) STRANDEDNESS: single
115 (D) TOPOLOGY: linear
117 (ii) MOLECULE TYPE: cDNA
118 (iii) HYPOTHETICAL: NO
119 (iv) ANTI-SENSE: NO
W--> 120 (v) FRAGMENT TYPE:
121 (vi) ORIGINAL SOURCE:
123 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
125 ACTGATGCAA AAATCCTCAA C 21

127 (2) INFORMATION FOR SEQ ID NO: 5:
129 (i) SEQUENCE CHARACTERISTICS:
130 (A) LENGTH: 26 base pairs

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131 (B) TYPE: nucleic acid
132 (C) STRANDEDNESS: single
133 (D) TOPOLOGY: linear
135 (ii) MOLECULE TYPE: cDNA
136 (iii) HYPOTHETICAL: NO
137 (iv) ANTI-SENSE: NO
W--> 138 (v) FRAGMENT TYPE:
139 (vi) ORIGINAL SOURCE:
141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
143 GATGGGCAAA CTGCAGGCCT GGGAAG 26
145 (2) INFORMATION FOR SEQ ID NO: 6:
147 (i) SEQUENCE CHARACTERISTICS:
148 (A) LENGTH: 27 base pairs
149 (B) TYPE: nucleic acid
150 (C) STRANDEDNESS: single
151 (D) TOPOLOGY: linear
153 (ii) MOLECULE TYPE: cDNA
154 (iii) HYPOTHETICAL: NO
155 (iv) ANTI-SENSE: NO
W--> 156 (v) FRAGMENT TYPE:
157 (vi) ORIGINAL SOURCE:
159 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
161 GCTACAAGGA CCCTTCGAGC CCCGTTC 27
163 (2) INFORMATION FOR SEQ ID NO: 7:
165 (i) SEQUENCE CHARACTERISTICS:
166 (A) LENGTH: 24 base pairs
167 (B) TYPE: nucleic acid
168 (C) STRANDEDNESS: single
169 (D) TOPOLOGY: linear
171 (ii) MOLECULE TYPE: cDNA
172 (iii) HYPOTHETICAL: NO
173 (iv) ANTI-SENSE: NO
W--> 174 (v) FRAGMENT TYPE:
175 (vi) ORIGINAL SOURCE:
177 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
179 GATGGTGATG TGTTGAGACT GGTG 24
181 (2) INFORMATION FOR SEQ ID NO: 8:
183 (i) SEQUENCE CHARACTERISTICS:
184 (A) LENGTH: 24 base pairs
185 (B) TYPE: nucleic acid
186 (C) STRANDEDNESS: single
187 (D) TOPOLOGY: linear
189 (ii) MOLECULE TYPE: cDNA
190 (iii) HYPOTHETICAL: NO
191 (iv) ANTI-SENSE: NO
W--> 192 (v) FRAGMENT TYPE:
193 (vi) ORIGINAL SOURCE:
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
197 GAGCATTCC CCACCCACTG GAGG 24

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199 (2) INFORMATION FOR SEQ ID NO: 9:

201 (i) SEQUENCE CHARACTERISTICS:
202 (A) LENGTH: 20 base pairs
203 (B) TYPE: nucleic acid
204 (C) STRANDEDNESS: single
205 (D) TOPOLOGY: linear
207 (ii) MOLECULE TYPE: cDNA
208 (iii) HYPOTHETICAL: NO
209 (iv) ANTI-SENSE: NO

W--> 210 (v) FRAGMENT TYPE:

211 (vi) ORIGINAL SOURCE:
213 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

215 GTTCTGGATC ACTTCGCGGA

20

217 (2) INFORMATION FOR SEQ ID NO: 10:

219 (i) SEQUENCE CHARACTERISTICS:
220 (A) LENGTH: 20 base pairs
221 (B) TYPE: nucleic acid
222 (C) STRANDEDNESS: single
223 (D) TOPOLOGY: linear
225 (ii) MOLECULE TYPE: cDNA
226 (iii) HYPOTHETICAL: NO
227 (iv) ANTI-SENSE: NO

W--> 228 (v) FRAGMENT TYPE:

229 (vi) ORIGINAL SOURCE:
231 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

233 TGAGGATGGT TCTCCCCAAG

20

235 (2) INFORMATION FOR SEQ ID NO: 11:

237 (i) SEQUENCE CHARACTERISTICS:
238 (A) LENGTH: 20 base pairs
239 (B) TYPE: nucleic acid
240 (C) STRANDEDNESS: single
241 (D) TOPOLOGY: linear
243 (ii) MOLECULE TYPE: cDNA
244 (iii) HYPOTHETICAL: NO
245 (iv) ANTI-SENSE: NO

W--> 246 (v) FRAGMENT TYPE:

247 (vi) ORIGINAL SOURCE:
249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

251 AGTGGTGAAT TAGGGGTGTT

20

253 (2) INFORMATION FOR SEQ ID NO: 12:

255 (i) SEQUENCE CHARACTERISTICS:
256 (A) LENGTH: 20 base pairs
257 (B) TYPE: nucleic acid
258 (C) STRANDEDNESS: single
259 (D) TOPOLOGY: linear
261 (ii) MOLECULE TYPE: cDNA
262 (iii) HYPOTHETICAL: NO
263 (iv) ANTI-SENSE: NO

W--> 264 (v) FRAGMENT TYPE:

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265 (vi) ORIGINAL SOURCE:
266 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

269 CTGCCATCTT GTGGAATCAT

271 (2) INFORMATION FOR SEQ ID NO: 13:

273 (i) SEQUENCE CHARACTERISTICS:
274 (A) LENGTH: 21 base pairs
275 (B) TYPE: nucleic acid
276 (C) STRANDEDNESS: single
277 (D) TOPOLOGY: linear

279 (ii) MOLECULE TYPE: cDNA

280 (iii) HYPOTHETICAL: NO

281 (iv) ANTI-SENSE: NO

W--> 282 (v) FRAGMENT TYPE:

283 (vi) ORIGINAL SOURCE:

285 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

287 CTGTGAGTC AAAACCTATG G

289 (2) INFORMATION FOR SEQ ID NO: 14:

291 (i) SEQUENCE CHARACTERISTICS:
292 (A) LENGTH: 20 base pairs
293 (B) TYPE: nucleic acid
294 (C) STRANDEDNESS: single
295 (D) TOPOLOGY: linear

297 (ii) MOLECULE TYPE: cDNA

298 (iii) HYPOTHETICAL: NO

299 (iv) ANTI-SENSE: NO

W--> 300 (v) FRAGMENT TYPE:

301 (vi) ORIGINAL SOURCE:

303 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

305 GTGTCAGAGG ATCTGAGAAG

307 (2) INFORMATION FOR SEQ ID NO: 15:

309 (i) SEQUENCE CHARACTERISTICS:
310 (A) LENGTH: 24 base pairs
311 (B) TYPE: nucleic acid
312 (C) STRANDEDNESS: single
313 (D) TOPOLOGY: linear

315 (ii) MOLECULE TYPE: cDNA

316 (iii) HYPOTHETICAL: NO

317 (iv) ANTI-SENSE: NO

W--> 318 (v) FRAGMENT TYPE:

319 (vi) ORIGINAL SOURCE:

321 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

323 GCACGCTCTG GAACAGATTC TGGA

325 (2) INFORMATION FOR SEQ ID NO: 16:

327 (i) SEQUENCE CHARACTERISTICS:
328 (A) LENGTH: 24 base pairs
329 (B) TYPE: nucleic acid
330 (C) STRANDEDNESS: single
331 (D) TOPOLOGY: linear

333 (ii) MOLECULE TYPE: cDNA

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24

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09164764.raw

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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:66 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=1
L:84 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=2
L:102 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=3
L:120 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=4
L:138 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=5
L:156 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=6
L:174 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=7
L:192 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=8
L:210 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=9
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L:246 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=11
L:264 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=12
L:282 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=13
L:300 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=14
L:318 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=15
L:336 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=16
L:354 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=17
L:372 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=18
L:390 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=19
L:408 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=20
L:426 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=21
L:444 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=22
L:462 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=23
L:480 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=24
L:498 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=25
L:516 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=26
L:534 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=27
L:552 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=28
L:570 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=29
L:588 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=30
L:606 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=31
L:624 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=32
L:642 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=33
L:660 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=34
L:678 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=35
L:696 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=36
L:714 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=37
L:732 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=38
L:750 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=39
L:768 M:246 W: Invalid value of Alpha Sequence Header Field, [FRAGMENT TYPE:], SeqNo=40